package splitp;

import java.awt.\*;

import javax.swing.\*;

import javax.swing.event.\*;

public class Splitp extends JFrame implements ListSelectionListener

{

JSplitPane js;

JList jlst;

ImageIcon i1,i2,i3;

String str[]={"mercury","venus","earth"};

JLabel l1;

Splitp()

{

Container c= getContentPane();

c.setLayout(new FlowLayout());

setVisible(true);

setSize(500,500);

jlst=new JList(str);

l1=new JLabel();

js=new JSplitPane(JSplitPane.HORIZONTAL\_SPLIT,jlst,l1);

jlst.addListSelectionListener(this);

i1=new ImageIcon("C:\\Users\\rusha\\Google Drive\\TY BSC IT\\Project\\Try1\\Temp Files\\Copy Full\\img\\44.jpg");

i2=new ImageIcon("C:\\Users\\rusha\\Google Drive\\TY BSC IT\\Project\\Try1\\Temp Files\\Copy Full\\img\\images.jpg");

i3=new ImageIcon("C:\\Users\\rusha\\Google Drive\\TY BSC IT\\Project\\Try1\\Temp Files\\Copy Full\\img\\34.jpg");

c.add(js);

}

public static void main(String[] args)

{

Splitp s= new Splitp();

}

public void valueChanged(ListSelectionEvent e)

{

//throw new UnsupportedOperationException("Not supported yet.");

int i=jlst.getSelectedIndex();

if(i==0)

{

l1.setIcon(i1);

}

else if(i==1)

{

l1.setIcon(i2);

}

else if(i==2)

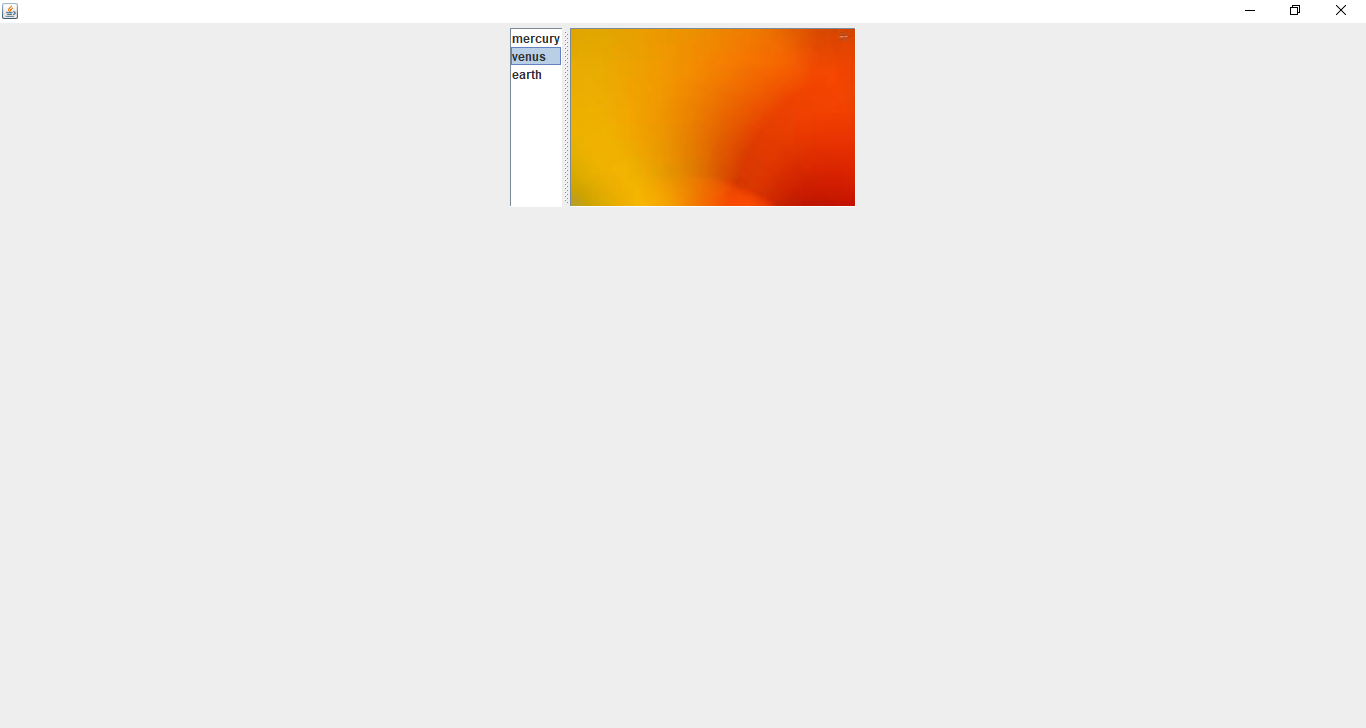
{

l1.setIcon(i3);

}

}

}



**Q} Write a program to implement Request Dispatcher.**

**Index.html**

*<html>*

*<body>*

*<form method="get" action="reqdisserv">*

*Name:<input type="text" name="t1"> <br>*

*Password:<input type="text" name="p1"><br>*

*<input type="submit" value="submit" name="s1">*

*</form>*

*</body>*

*</html>*

**Reqdisserv.java**

*import java.io.IOException;*

*import java.io.PrintWriter;*

*import javax.servlet.RequestDispatcher;*

*import javax.servlet.ServletException;*

*import javax.servlet.http.HttpServlet;*

*import javax.servlet.http.HttpServletRequest;*

*import javax.servlet.http.HttpServletResponse;*

*public class reqdisserv extends HttpServlet*

*{*

*protected void doGet(HttpServletRequest request, HttpServletResponse response)*

*throws ServletException, IOException*

*{*

*PrintWriter out = response.getWriter();*

*String a=request.getParameter("t1");*

*if(a.equals("kccollege"))*

*{*

*RequestDispatcher rd=request.getRequestDispatcher("forward1");*

*rd.forward(request, response);*

*}*

*else*

*{*

*RequestDispatcher rd=request.getRequestDispatcher("index.html");*

*rd.include(request, response);*

*out.print("Sorry username or password error!");*

*}*

*}*

*}*

**Forward1.java**

*import java.io.IOException;*

*import java.io.PrintWriter;*

*import javax.servlet.ServletException;*

*import javax.servlet.http.HttpServlet;*

*import javax.servlet.http.HttpServletRequest;*

*import javax.servlet.http.HttpServletResponse;*

*public class forward1 extends HttpServlet {*

*protected void processRequest(HttpServletRequest request, HttpServletResponse response)*

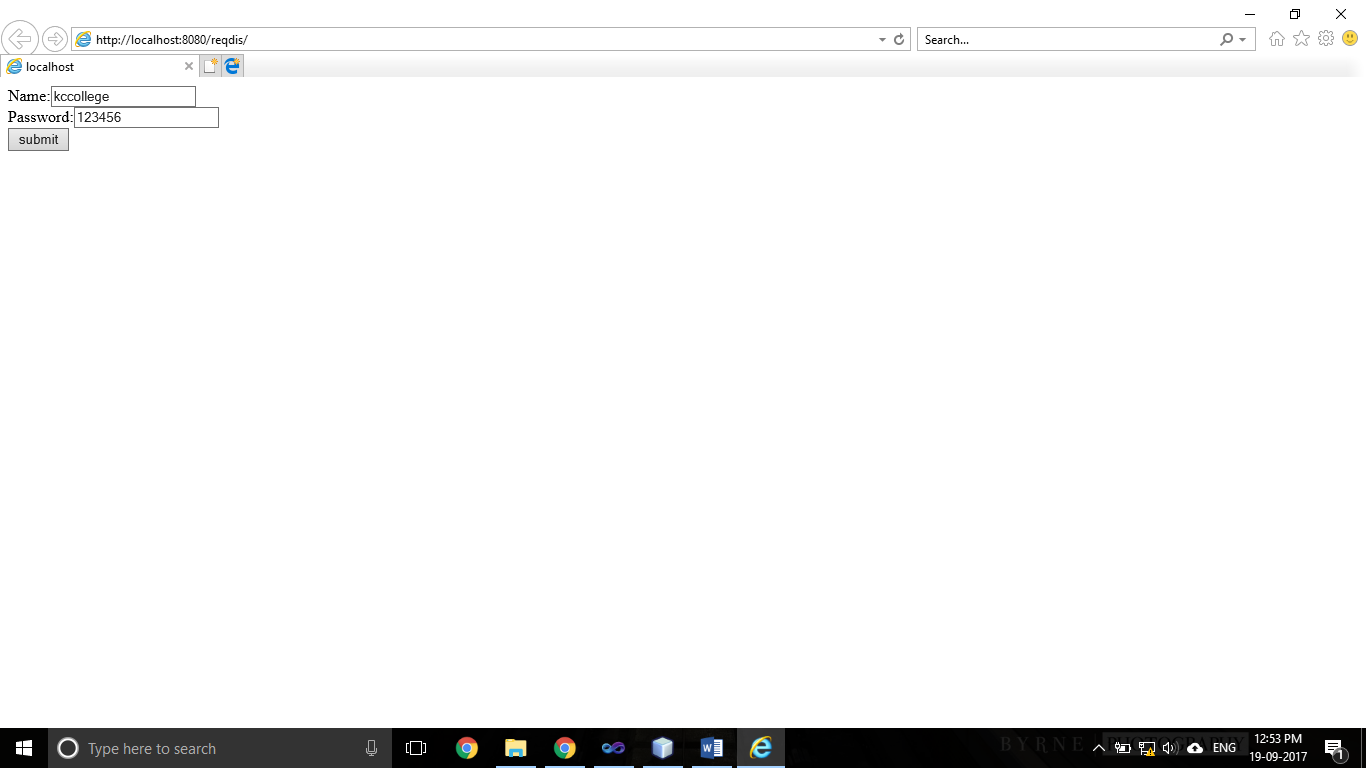
*throws ServletException, IOException {*

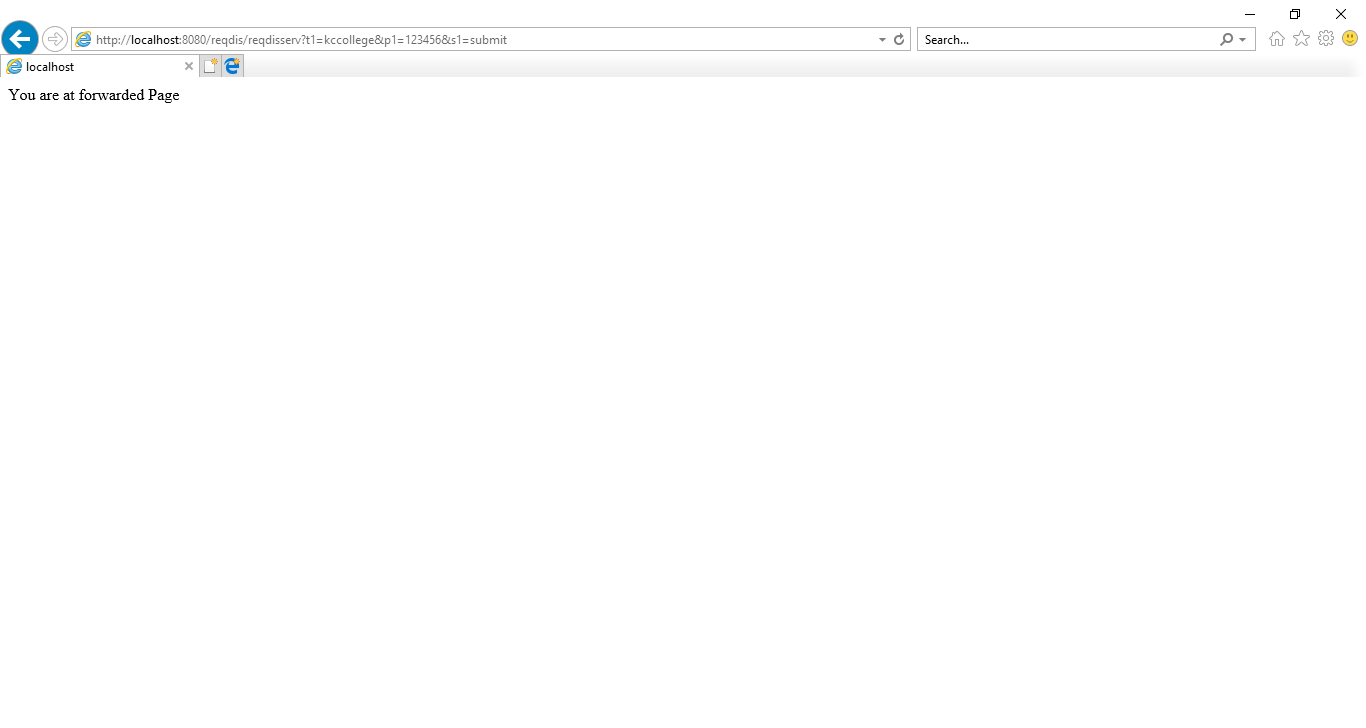
*PrintWriter out = response.getWriter();*

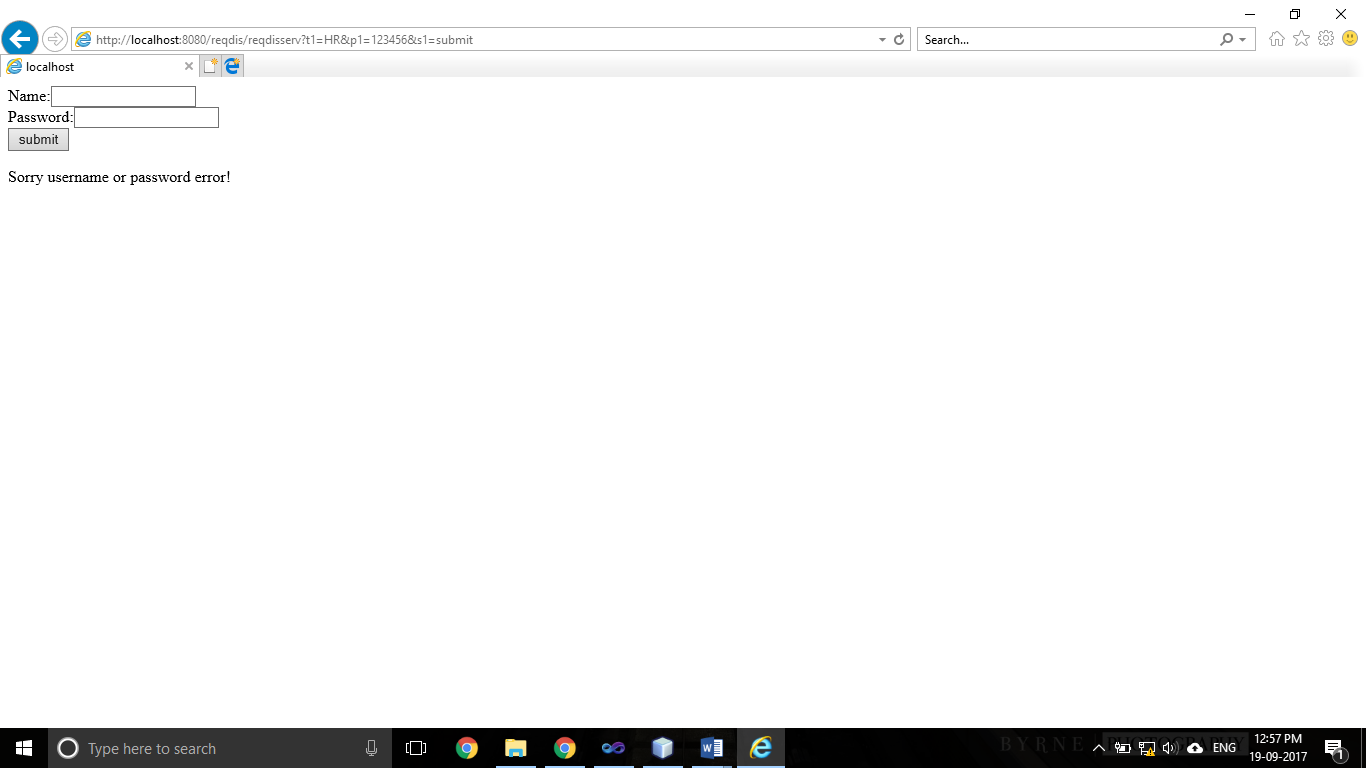
*out.println("You are at forwarded Page");*

*}*

*}*







**Q} Write a program to implement session using jsp.**

**Index.jsp**

*<%@page contentType="text/html" pageEncoding="UTF-8"%>*

*<!DOCTYPE html>*

*<html>*

*<head>*

*<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">*

*<title>JSP Page</title>*

*</head>*

*<body>*

*<form method="post" action="sessionserv">*

*Username: <input type="text" name="t1">*

*Password: <input type="password" name="t2">*

*<input type="submit">*

*</form>*

*</body>*

*</html>*

**Sessionserv.java**

*import java.io.IOException;*

*import java.io.PrintWriter;*

*import javax.servlet.RequestDispatcher;*

*import javax.servlet.ServletException;*

*import javax.servlet.http.HttpServlet;*

*import javax.servlet.http.HttpServletRequest;*

*import javax.servlet.http.HttpServletResponse;*

*import javax.servlet.http.HttpSession;*

*public class sessionserv extends HttpServlet*

*{*

*protected void doPost(HttpServletRequest request, HttpServletResponse response) throws IOException, ServletException*

*{*

*PrintWriter out = response.getWriter();*

*String uname= request.getParameter("t1");*

*String pass= request.getParameter("t2");*

*if(uname.equals("Smart") && pass.equals("it"))*

*{*

*HttpSession sess=request.getSession();*

*sess.setAttribute("uname",uname);*

*response.sendRedirect("sessionjsp.jsp");*

*}*

*else*

*{*

*RequestDispatcher rd=request.getRequestDispatcher("/index.jsp");*

*rd.include(request,response);*

*out.println("Invalid");*

*}*

*}*

*}*

**Sessionjsp.jsp**

*<%@page contentType="text/html" pageEncoding="UTF-8"%>*

*<!DOCTYPE html>*

*<html>*

*<head>*

*<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">*

*<title>JSP Page</title>*

*</head>*

*<body>*

*<%*

*String user=(String)session.getAttribute("uname");*

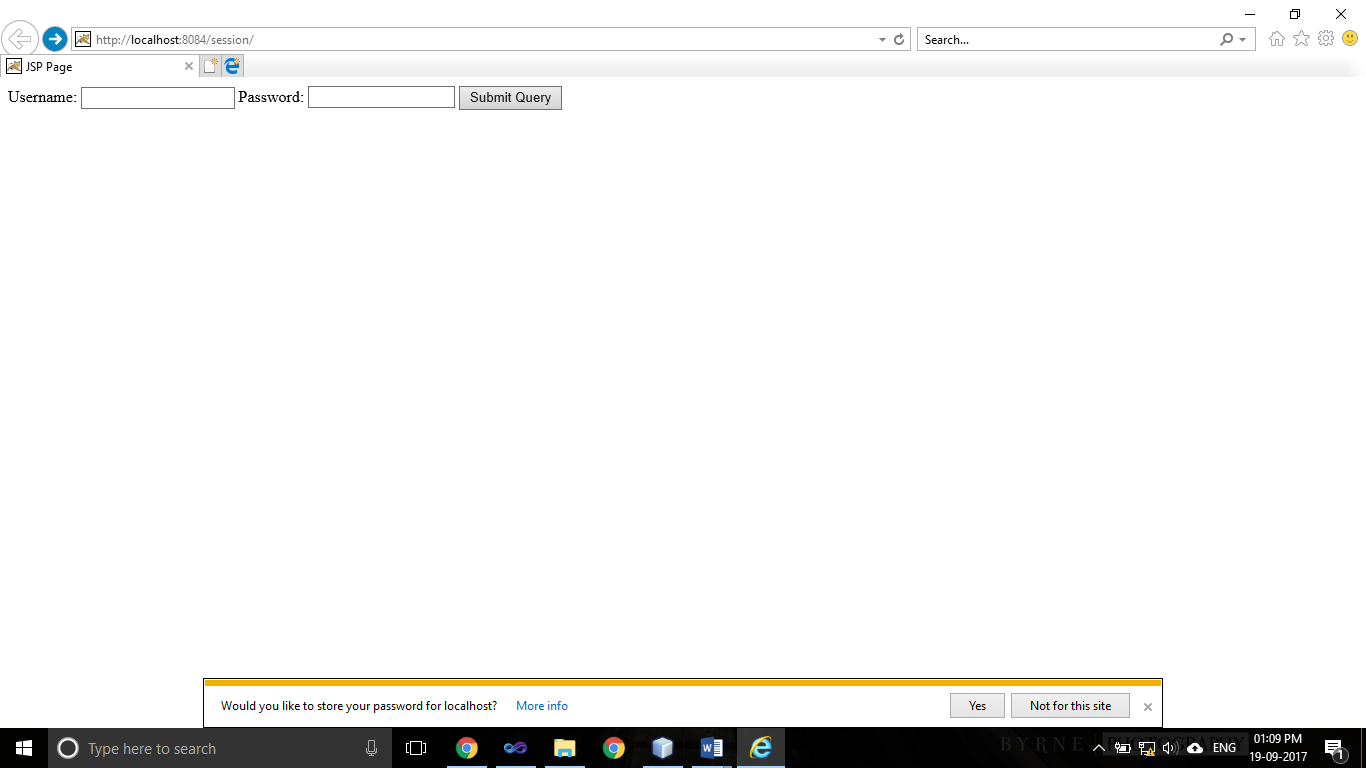
*out.println(user);*

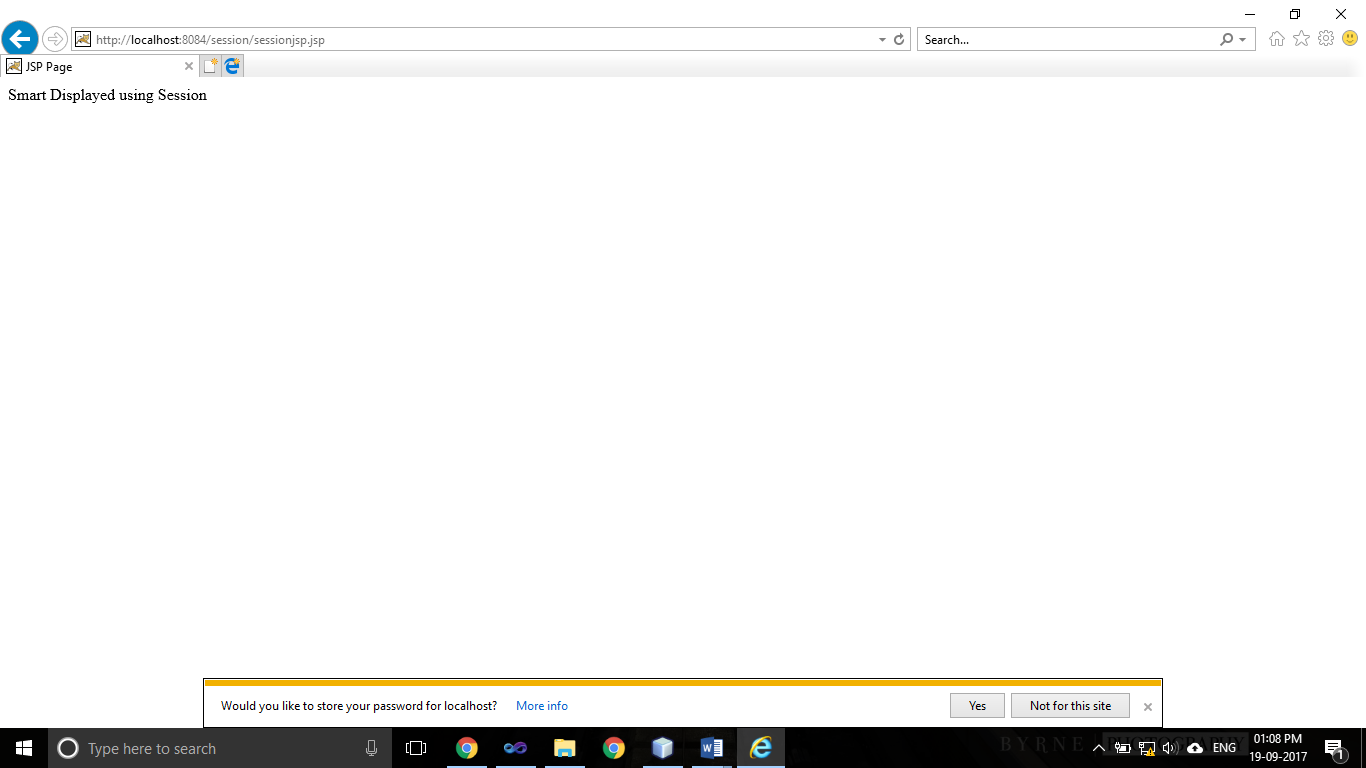
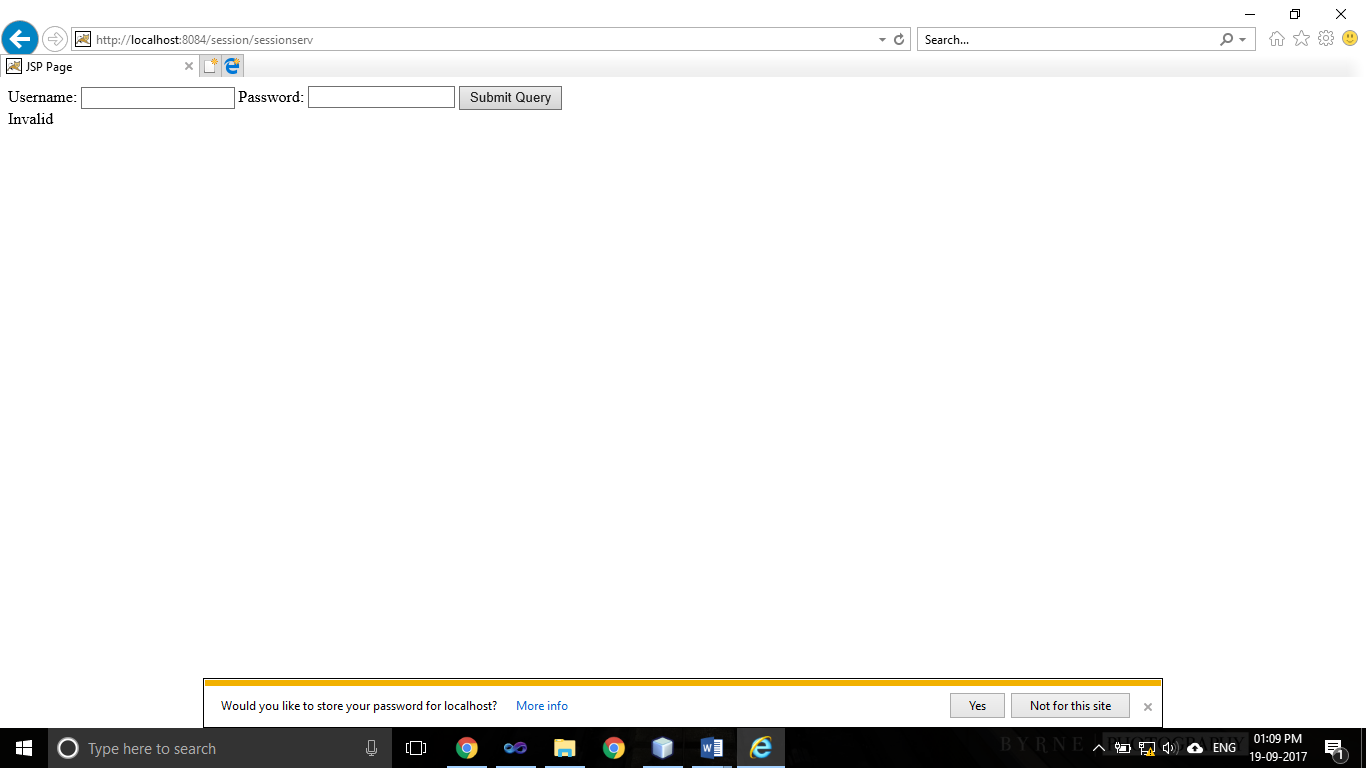
*%>*

*</body>*

*</html>*

Output:





**Q1} Write a program to present a set of choices for a user to select Stationary products and display the price of Product after selection from the list.**

*package up1;*

*import java.awt.\*;*

*import javax.swing.\*;*

*import javax.swing.event.\*;*

*public class Up1 extends JFrame implements ListSelectionListener {*

*JLabel l1;*

*JList li1;*

*JTextField tf1;*

*String name[]={"Books","Pen","Pencil","Sharpener"};*

*Up1()*

*{*

*Container c= getContentPane();*

*c.setLayout(new FlowLayout());*

*l1=new JLabel("Select Product");*

*c.add(l1);*

*li1=new JList(name);*

*li1.addListSelectionListener(this);*

*c.add(li1);*

*tf1=new JTextField(15);*

*c.add(tf1);*

*}*

*public void valueChanged(ListSelectionEvent le)*

*{*

*int i=li1.getSelectedIndex();*

*if(i==0)*

*{*

*tf1.setText("Price of Book is 500");*

*}*

*else if(i==1)*

*{*

*tf1.setText("Price of Pen is 50");*

*}*

*else if(i==2)*

*{*

*tf1.setText("Price of Pencil is 00");*

*}*

*else if(i==3)*

*{*

*tf1.setText("Price of Sharpener is 5");*

*}* **Output**

*}*

*public static void main(String[] args) {*

*Up1 u=new Up1();*

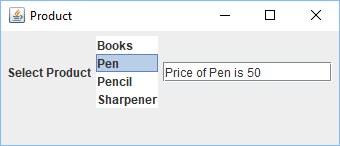
*u.setSize(500,500);*

*u.setVisible(true);*

*u.setTitle("Product");*

*u.setDefaultCloseOperation(EXIT\_ON\_CLOSE);*

*}*

**

*}*

**Q2} Develop simple servlet Question Answer application to demonstrate use of HttpServletRequest and HttpServletResponse interfaces.**

*<html>*

*<head>*

*<title>Simple Servlet Question Answer</title>*

*<meta charset="UTF-8">*

*<meta name="viewport" content="width=device-width, initial-scale=1.0">*

*</head>*

*<body>*

*<form method="post" action="c1">*

*<h1> Java is developed by? </h1>*

*<br>*

*<input type="radio" name="r1" value="sun">sun*

*<input type="radio" name="r1" value="microsoft">microsoft*

*<br>*

*<input type="submit" value="check">*

*</form>*

*</body>*

*</html>*

*c1.java*

*import java.io.IOException;*

*import java.io.\*;*

*import java.io.PrintWriter;*

*import javax.servlet.ServletException;*

*import javax.servlet.annotation.WebServlet;*

*import javax.servlet.http.HttpServlet;*

*import javax.servlet.http.HttpServletRequest;*

*import javax.servlet.http.HttpServletResponse;*

*public class c1 extends HttpServlet*

*{*

*protected void processRequest(HttpServletRequest request, HttpServletResponse response)*

*throws ServletException, IOException*

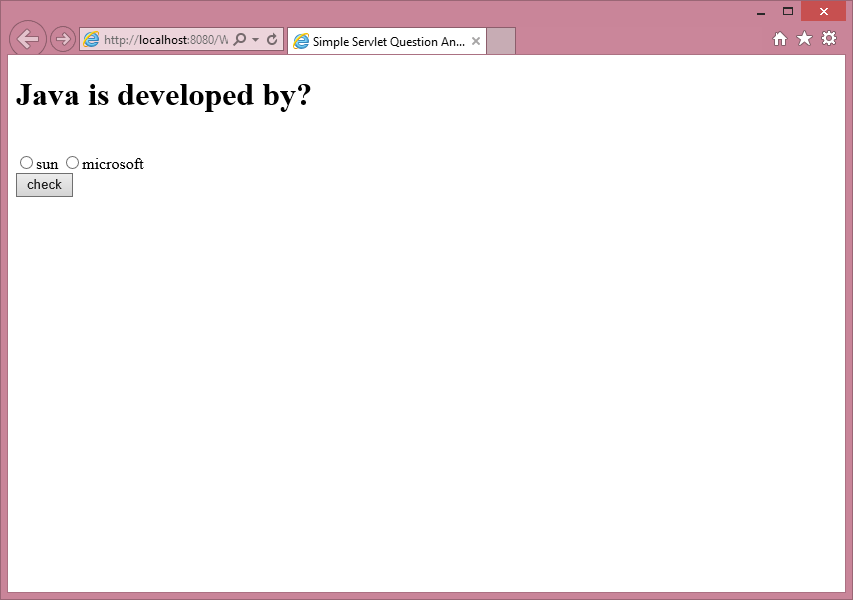
*{*

*response.setContentType("text/html;charset=UTF-8");*

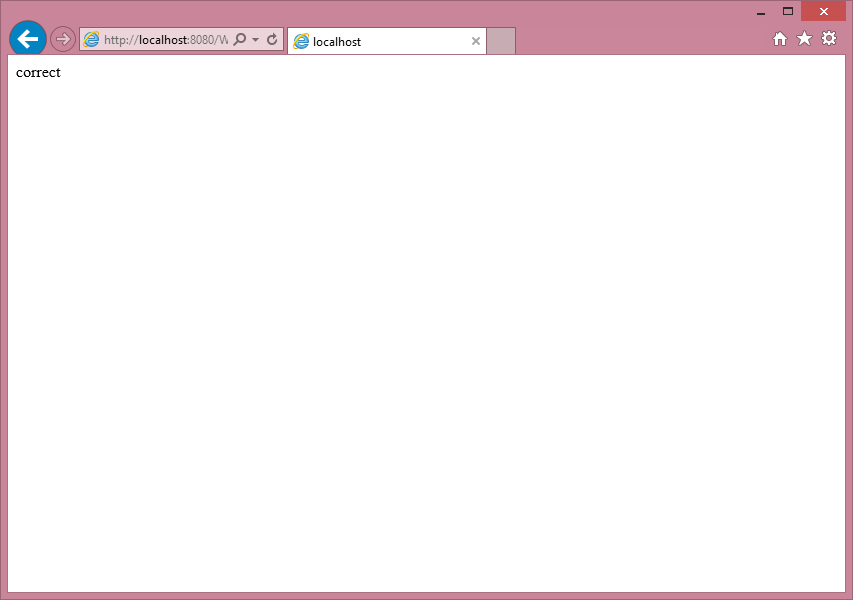
*PrintWriter pw=response.getWriter();*

*String s=request.getParameter("r1");*

*if(s.equals("sun"))*

 *{*

*pw.println("correct");*

 *}*

*else*

*{*

*pw.println("WrongAnswer");*

*}*

*pw.close();*

*}*

*}*

**Q3} Develop Servlet Application of Basic Calculator (+, -, \*, /) using ServletInputStream and ServletOutputStream.**

*<html>*

*<head>*

*<title> Servlet </title>*

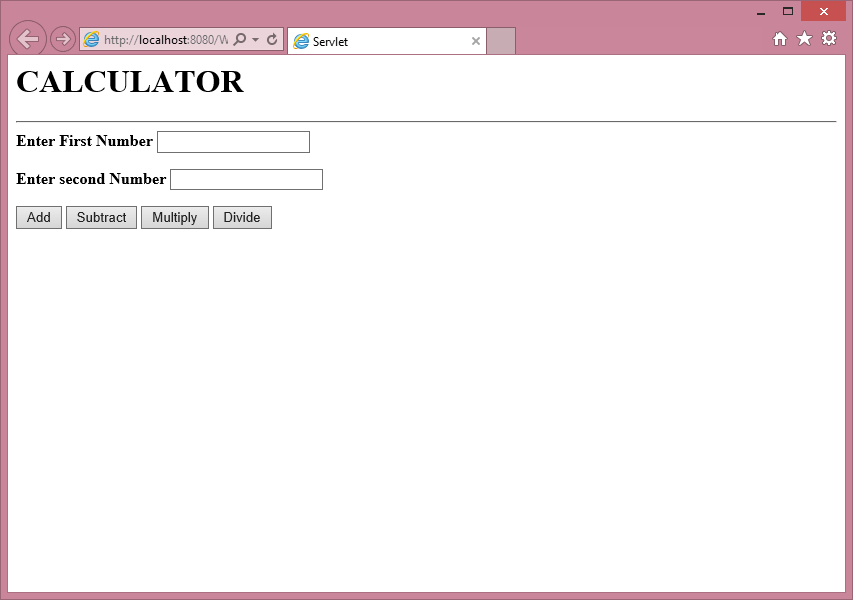
*<meta charset="UTF-8">*

*<meta name="viewport" content="width=device-width, initial-scale=1.0">*

*</head>*

*<body>*

*<form method="post" action="calci">*

* <h1> CALCULATOR </h1>*

*<hr>*

*<b> Enter First Number </b>*

*<input type="text" name="t1" >*

*<p></p>*

*<b> Enter second Number </b>*

*<input type="text" name="t2" >*

*<p></p>*

*<input type="submit" name="c" value="Add">*

*<input type="submit" name="c" value="Subtract">*

*<input type="submit" name="c" value="Multiply">*

*<input type="submit" name="c" value="Divide">*

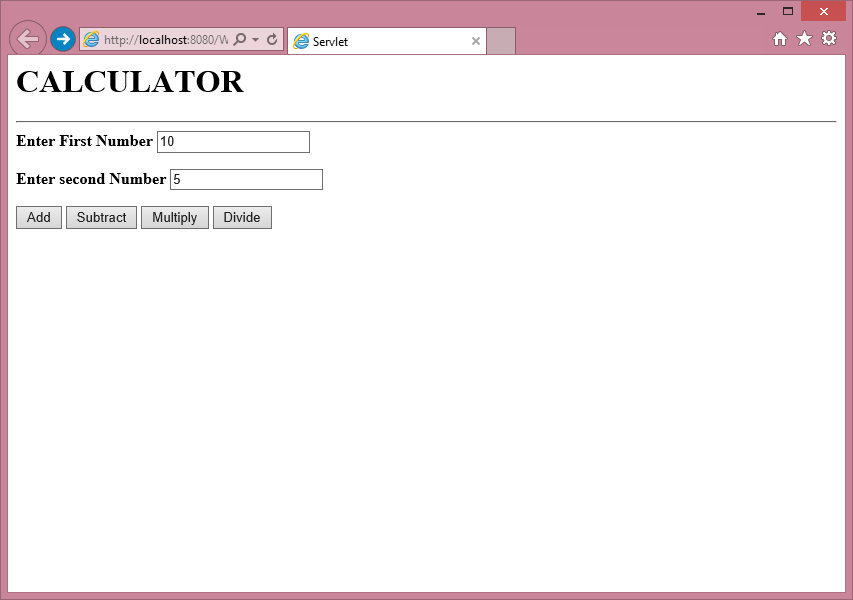
*</form>*

*</body>*

*</html>*

*//calci.java*

*import java.io.IOException;*

*import java.io.\*;*

*import java.io.PrintWriter;*

*import javax.servlet.ServletException;*

*import javax.servlet.annotation.WebServlet;*

*import javax.servlet.http.HttpServlet;*

*import javax.servlet.http.HttpServletRequest;*

*import javax.servlet.http.HttpServletResponse;*

*@WebServlet(urlPatterns = {"/calci"})*

*public class calci extends HttpServlet*

*{*

*protected void doPost(HttpServletRequest request, HttpServletResponse response)*

*throws ServletException, IOException {*

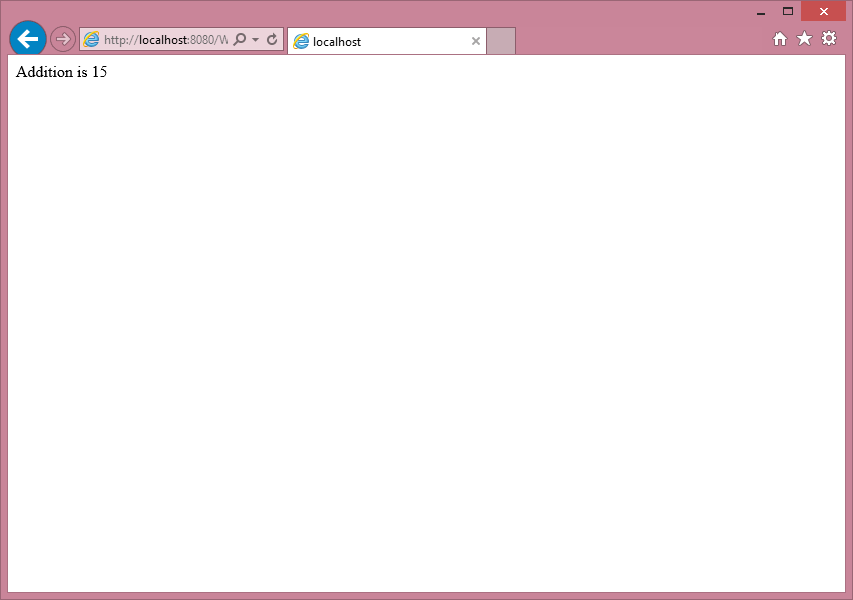
*response.setContentType("text/html;charset=UTF-8");*

*PrintWriter out=response.getWriter();*

*int a=Integer.parseInt(request.getParameter("t1"));*

*int b=Integer.parseInt(request.getParameter("t2"));*

*String op=request.getParameter("c");*

 *if(op.equals("Add"))*

*{*

*out.println("Addition is "+(a+b));*

*}*

*else if(op.equals("Subtract"))*

*{*

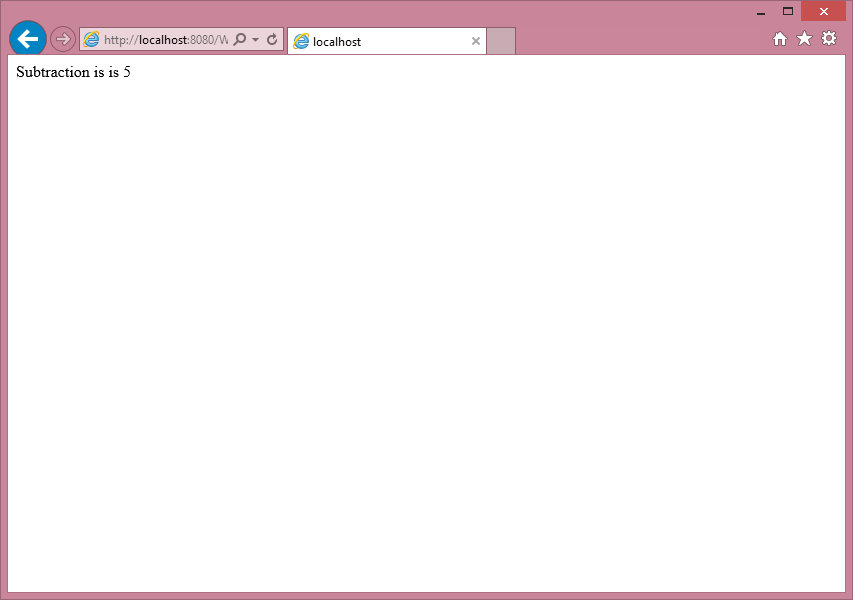
*out.println("Subtraction is is "+(a-b));*

*}*

*if(op.equals("Multiply"))*

*{*

*out.println("Multiplication is "+(a\*b));*

 *}*

*else*

*{*

*out.println("Division is "+(a/b));*

*}*

*out.close();*

**Q4} Develop a JSP application to accept Registration details from user and store it into the database table.**

*<%@page contentType="text/html" pageEncoding="UTF-8"%>*

*<!DOCTYPE html>*

*<html>*

*<head>*

*<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">*

*<title>JSP Page</title>*

*</head>*

*<body>*

*<form name="f1" method="Post" action="f2.jsp">*

*Name:*

*<input type="text" name="t1"> <br> <br>*

*Rollno:*

*<input type="text" name="t2"> <br> <br>*

*Address:*

*<input type="text" name="t3"> <br> <br>*

*<input type="submit" value="submit">*

*</form>*

*</body>*

*</html>*

*//F2.Jsp*

*<%@page contentType="text/html" pageEncoding="UTF-8" import="java.sql.\*"%>*

*<% String a,b,c;*

*a=request.getParameter("t1");*

*b=request.getParameter("t2");*

*c=request.getParameter("t3");*

*try*

*{*

*Class.forName("com.mysql.jdbc.Driver");*

*Connection con=DriverManager.getConnection("jdbc:mysql://localhost:3306/myfirst","root","root");*

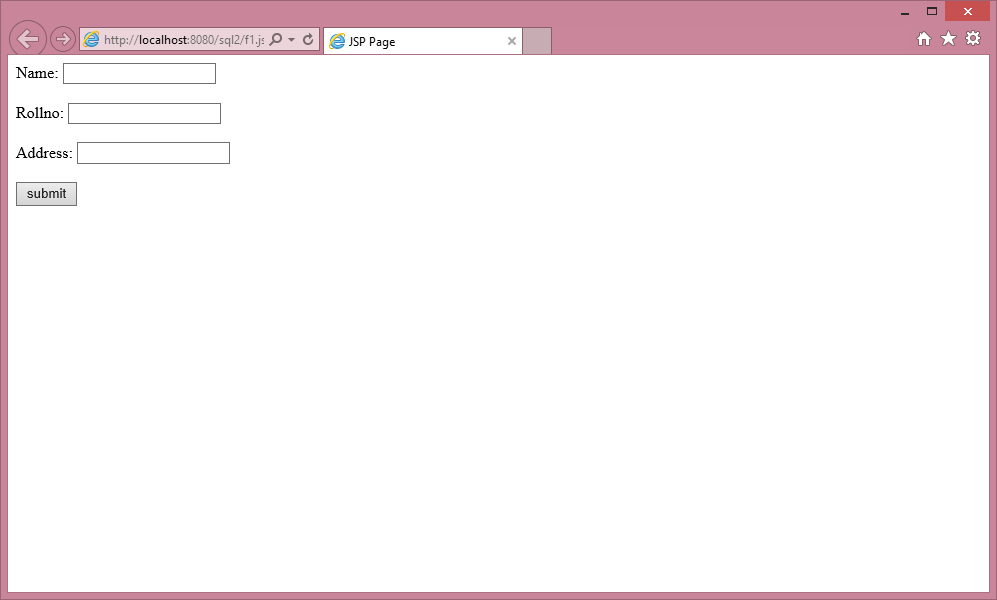
*String q="insert into student1 values(?,?,?)";*

*PreparedStatement ps=con.prepareStatement(q);*

*ps.setString(1,a);*

*ps.setString(2,b);*

*ps.setString(3,c);*



*ps.executeUpdate();*

*con.close();*

*ps.close();*

*out.println("recrds inserted");*

*}*

*catch(Exception E)*

*{*

*System.out.println(E.getMessage());*

*} %>*

**Q5} Develop a JSP application to Authenticate User Login as per the registration details. If login success then forward user to Index page otherwise show login failure message.**

*<%@page contentType="text/html" pageEncoding="UTF-8"%>*

*<!DOCTYPE html>*

*<html>*

*<head>*

*<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">*

*<title>JSP Page</title>*

*</head>*

*<body>*

*<form method="post" action="check.jsp">*

*<b> username: </b>*

*<input type="text" name="n">*

*<br>*

*<b> password: </b>*

*<input type="password" name="p">*

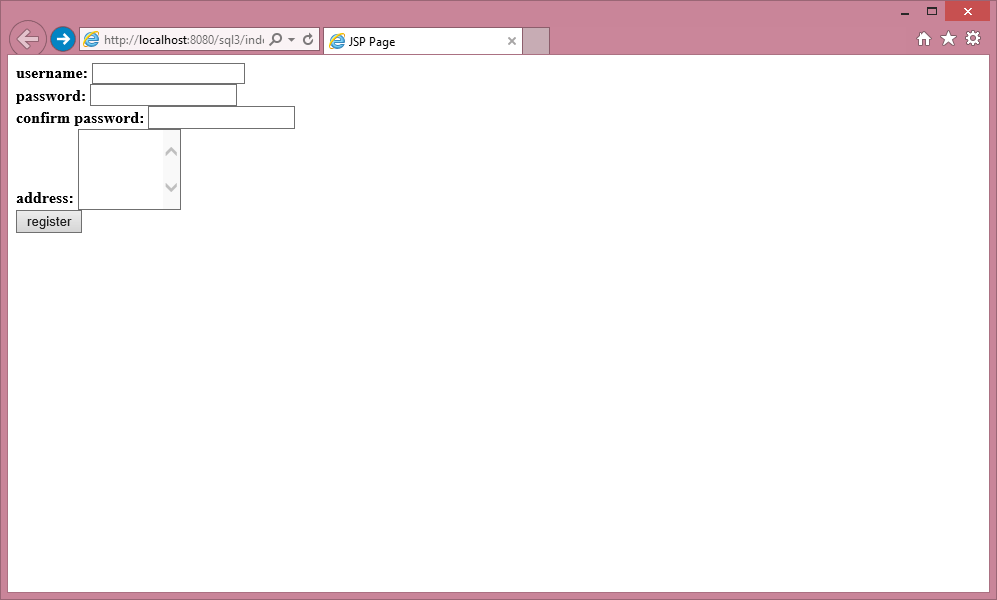
*<br>*

*<b> confirm password: </b>*

*<input type="password" name="cp">*

*<br>*

*<b> address: </b>*

 *<textarea name="a" rows="5" cols="10">*

*</textarea>*

*<br>*

*<input type="submit" value="register">*

*</form>*

*</body>*

*</html>*

//Check.jsp

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

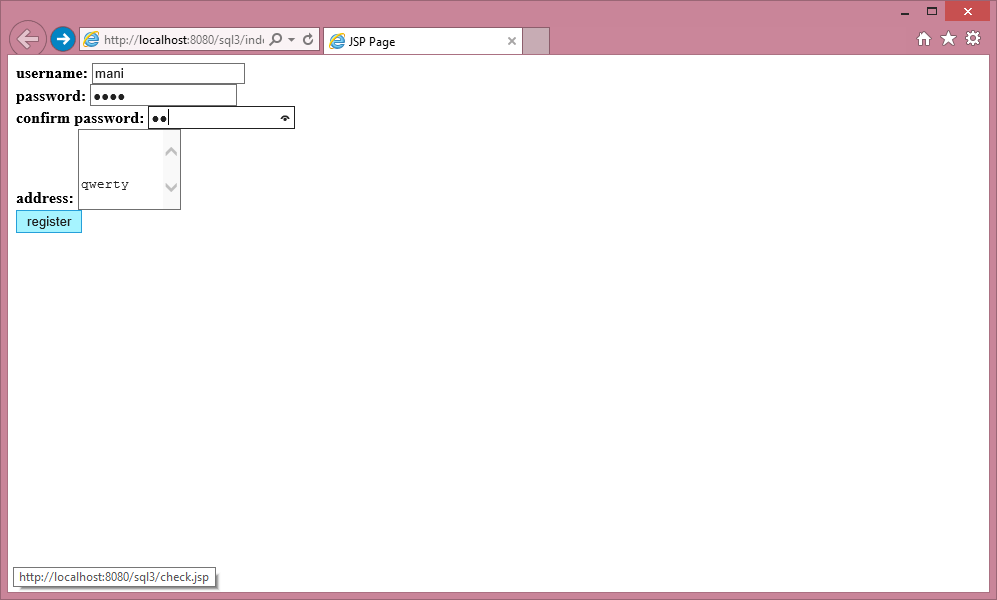
<title>JSP Page</title>

</head>

<body>

<%

String s1=request.getParameter("p");

 String s2=request.getParameter("cp");

if(s1.equals(s2))

{

%>

<jsp:forward page="login.jsp"/>

<%

}

else

{

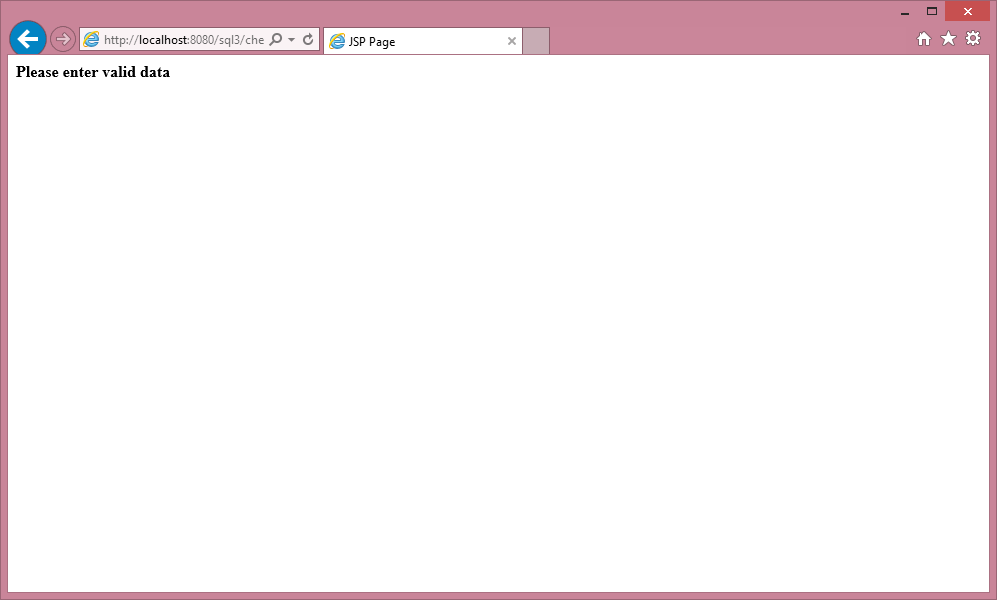
%>

<jsp:forward page="error.jsp"/>

<%

}

%>



</body>

</html>

//Login.jsp

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>JSP Page</title>

</head>

<body>

<form method="post" action="">

<b> Username </b>

<input type="text"name="u">

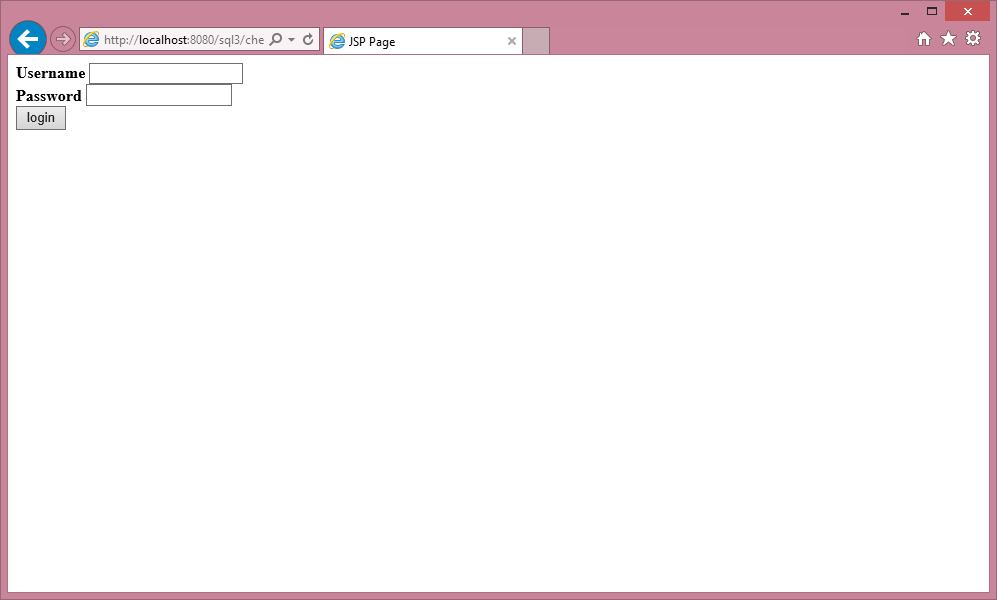
<br>

<b> Password </b>

<input type="password"name="v">

<br>

<input type="button" value="login">



</form>

</body>

</html>

//error.jsp

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<!DOCTYPE html>

<html>

<head>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

<title>JSP Page</title>

</head>

<body>

<form method="post" action="">

<b> Please enter valid data </b>

</form>

</body>

</html>

**Currency converter**

Currency\_converter.java

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import defaultpackage.curr\_conv;

import static java.lang.System.out;

import javax.ejb.EJB;

public class currency\_converter extends HttpServlet {

@EJB

private curr\_conv curr\_conv;

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out=response.getWriter();

double a=Integer.parseInt(request.getParameter("t1"));

String c=request.getParameter("s1");

if(c.equals("dollar"))

{

out.println(curr\_conv.dollar(a));

}

else if(c.equals("pound"))

{

out.println(curr\_conv.pound(a));

}

else if(c.equals("yen"))

{

out.println(curr\_conv.yen(a));

}

else if(c.equals("euro"))

{

out.println(curr\_conv.euro(a));

}

else

{

out.println("INVALID OPTION");

}

}

Curr\_conv.java

package defaultpackage;

import javax.ejb.Stateless;

/\*\*

\*

\* @author Raj

\*/

@Stateless

public class curr\_conv {

public double dollar(double a) {

a=a\*64.12;

return a;

}

public double pound(double a) {

a=a\*84.70;

return a;

}

public double yen(double a) {

a=a\*0.58;

return a;

}

public double euro(double a) {

a=a\*76.18;

return a;

}

}

Index.html

<!DOCTYPE html>

<html>

<head>

<title>Currency Converter</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body>

<form method="post" action="currency\_converter">

Enter the amount to convert in INR:<input type="text" name="t1"><br>

<select name="s1">

<option value="dollar">Dollar</option>

<option value="pound">Pound</option>

<option value="yen">Yen</option>

<option value="euro">Euro</option>

</select><br>

<input type="submit" value="submit"><br>

</form>

</body>

</html>

Temp\_convert.java

import java.io.IOException;

import java.io.PrintWriter;

import javax.ejb.EJB;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

import temp.temp\_conv;

public class temp\_convert extends HttpServlet {

@EJB

private temp\_conv temp\_conv;

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

double a=Integer.parseInt(request.getParameter("t1"));

out.println(temp\_conv.convert(a));

}

}

Index.html

<!DOCTYPE html>

<html>

<head>

<title>TODO supply a title</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body>

<form method="post" action="temp\_convert">

Enter the temperature in farenheit:<input type="text" name="t1"><br>

<input type="submit" value="Convert to Celsius">

</form>

</body>

</html>

Temp\_conv

package temp;

import javax.ejb.Stateless;

@Stateless

public class temp\_conv {

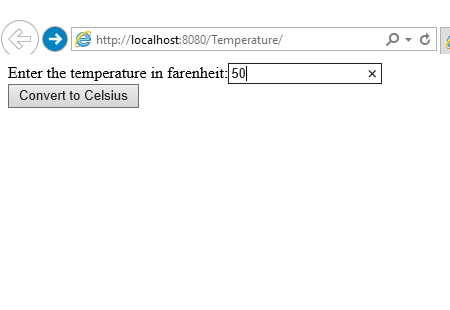
public double convert(double a) {

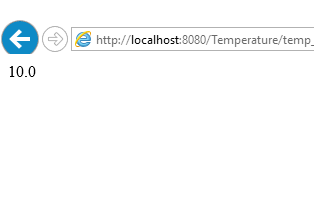
a=(a-32)\*(5.0/9.0);

return a;

}

}





Calculate.java

import calc.interest\_calc;

import java.io.IOException;

import java.io.PrintWriter;

import javax.ejb.EJB;

import javax.servlet.ServletException;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class calculate extends HttpServlet {

@EJB

private interest\_calc interest\_calc;

protected void processRequest(HttpServletRequest request, HttpServletResponse response)

throws ServletException, IOException {

response.setContentType("text/html;charset=UTF-8");

PrintWriter out = response.getWriter();

double p=Double.parseDouble(request.getParameter("t1"));

double r=Double.parseDouble(request.getParameter("t2"));

double n=Double.parseDouble(request.getParameter("t3"));

String str=request.getParameter("r1");

if(str.equals("si"))

{

out.println(interest\_calc.si\_calc(p,r,n));

}

else

{

out.println(interest\_calc.ci\_calc(p,r,n));

}

}

}

Index.html

<!DOCTYPE html>

<html>

<head>

<title>SIMPLE INTEREST</title>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

</head>

<body>

<form method="post" action="calculate">

Principle Amount :<input type="text" name="t1"><br>

Rate :<input type="text" name="t2"><br>

No.of years :<input type="text" name="t3"><br>

<input type="radio" name="r1" value="si">Simple Interest<br>

<input type="radio" name="r1" value="ci">Compound Interest<br>

<input type="submit" value="calculate">

</form>

</body>

</html>

Interest\_calc.java

package calc;

import static java.lang.Math.pow;

import javax.ejb.Stateless;

@Stateless

public class interest\_calc {

public double si\_calc(double p, double r, double n) {

double si;

si=(p\*r\*n)/100;

return si;

}

public double ci\_calc(double p, double r, double n) {

double ci;

ci=p\* (pow((1+r/100),n));

return ci;

}

}